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Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam (June 2009)

SEDIMENTS

Dear Jim:

Date:
July 15, 2009

Attached is the 28th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/Feasibility Study (SRI/FS) – Area 1. This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

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Sincerely,

ARCADIS

Michael J. Erickson, P.E.
Associate Vice President

Our ref:
B0064539.0000.00014
#2

Copies:
Michael Berkoff, USEPA
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**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)**

REPORT #28, JUNE 2009

**PREPARED BY ARCADIS
JULY 15, 2009**

ON BEHALF OF THE KALAMAZOO RIVER STUDY GROUP (KRSG)

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA)**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #28, JUNE 2009

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On June 3, ARCADIS received signed access letters from three landowners associated with the Plainwell No. 2 Dam Area Time-Critical Removal Action (TCRA). The access letters were sent on May 26.
- On June 8, USEPA issued the AOC for Removal Action regarding the Plainwell No. 2 Dam Area TCRA.
- On June 11, ARCADIS submitted to USEPA a presentation regarding the off-channel areas data review. This was an action item from the April 27 technical meeting in Detroit.
- On June 12, ARCADIS submitted to USEPA the Health and Safety Plan Addendum No. 5 – Plainwell No. 2 Dam Area TCRA. This submittal is discussed in Paragraph 16 of the June 2009 AOC.
- On June 12, ARCADIS, Georgia-Pacific, and USEPA met in Chicago to discuss the Plainwell No. 2 Dam Area TCRA Draft Design Report. This submittal is discussed in Paragraph 15 of the June 2009 AOC.
- On June 17, ARCADIS submitted to USEPA the final *Source Investigation at the Former Kalamazoo and Hawthorne Mill Properties* report (Source Investigation Report), which is discussed in Section 2.2.1.1 of the SOW.
- On June 18, ARCADIS received a signed access letter from one landowner associated with the Plainwell No. 2 Dam Area TCRA. The access letter was sent on June 10.
- On June 23, ARCADIS submitted electronically to USEPA the revised draft *Multi-Area FS Technical Memorandum - Preliminary Permitting/Equivalency Requirements*, which is discussed in Section 1.2.2.3 of the SOW. Hard copy was forwarded on June 30.
- On June 30, ARCADIS submitted the draft *Area 1 Work Plan Supplement: Human Health and Ecological Risk Assessment Work Plan* (Area 1 Risk Assessment Work Plan) to USEPA. The Area-Specific Work Plans are discussed in Section 1.3 of the SOW.
- Georgia-Pacific awaits USEPA's response to the letter requesting USEPA's data usability determination for existing data for purposes of the SRI/FS, which was submitted to USEPA on August 27, 2007. These data are described in Section 1.1.2 of the SOW.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
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REPORT #28, JUNE 2009

- Georgia-Pacific awaits USEPA's comments on the one remaining Multi-Area FS document described in Section 1.2.2 of the SOW (Preliminary Remedial Technology Screening [Section 1.2.2.1]) and the Candidate Technologies and Testing Needs Technical Memorandum (described in Section 4.1 of the SOW), which were submitted to USEPA on February 22, 2008.
- Georgia-Pacific awaits USEPA comments on the draft Area 1 Risk Assessment Work Plan and the revised draft *Multi-Area FS Technical Memorandum - Preliminary Permitting/Equivalency Requirements*.

Data Collected and Field Activities Conducted during the Period

- On June 5, ARCADIS notified USEPA regarding the upcoming groundwater and surface water elevation monitoring and groundwater sampling schedule for the Plainwell TCRA Area.
- During the weeks of June 15 and 22, ARCADIS monitored groundwater and surface water elevations twice a week to confirm groundwater flow towards the river in the Plainwell TCRA Area (Table A).
- On June 25, ARCADIS forwarded to USEPA the updated table of groundwater and surface water elevation measurements for the Plainwell TCRA Area.
- During the week of June 29, ARCADIS collected the second round of groundwater and surface water samples in the Plainwell TCRA Area (Table B).

Laboratory Data Received during the Period

- On June 26, ARCADIS received the results for sample delivery group (SDG) Pb0173 from Mass Spec Services for the radionuclide analyses (Table C) on samples from Lake Allegan (Area 6). ARCADIS awaits the results for the remaining samples. The corresponding PCB samples are still being retained in frozen storage at TestAmerica Laboratories, Inc. (TestAmerica) pending results of the radionuclide analysis. In addition, cores are being retained in frozen storage at the ARCADIS field office in Kalamazoo (Table D).
- Validated data for the SDGs received in April from TestAmerica are included in this monthly report. These data include post-removal sediment sampling completed in March in the Plainwell TCRA Area (SDGs TCRA116 through TCRA118) (Table E). This activity is described in Section 3.4.5 of the Area 1 SRI/FS Work Plan. In accordance with Section 2.1 of the SOW, paper and electronic copies of these laboratory data are included as part of the monthly progress reports. Attachment A contains the validation reports for these data packages. The enclosed CD also contains the electronic data deliverable for these data.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #28, JUNE 2009

Problems

- In the Plainwell TCRA Area, staff gage #2 (SG-2) was displaced since the last round of groundwater sample collection in April and water elevations could not be obtained for that location.

Actions Taken to Correct Problems

- SG-2 is scheduled to be re-installed in July.

Developments Anticipated during the Next Two Reporting Periods

- In July, ARCADIS is scheduled to submit the Hot Spot Assessment Plan to USEPA. This assessment is Phase 3 of the sampling effort for the reaches in Area 1 from the Former Georgia-Pacific Mill Lagoons to Crown Vantage Landfill (Section 3.4.1.1 of the Area 1 SRI/FS Work Plan) and Portage Creek (Section 3.4.1.3 of the Area 1 SRI/FS Work Plan).
- In July, Georgia-Pacific, ARCADIS, and USEPA are scheduled to meet to discuss the Area 1 Risk Assessment Work Plan.
- In July, an off-channel area study plan based on the June 11 presentation is scheduled to be submitted to USEPA.
- In July and August, ARCADIS will review the results of the radionuclide results from the Lake Allegan cores. Select PCB samples retained in frozen storage at TestAmerica are scheduled to be analyzed based on those results.
- On July 1, USEPA is scheduled to provide comments on the draft Design Report for the Plainwell No. 2 Dam Area TCRA, which was submitted in May 2009.
- On July 6, USEPA will forward to Georgia-Pacific approval of the Mill's Source Investigation Report. The letter is dated June 30.
- During the week of July 6, samples are scheduled to be collected regarding the Crown Vantage area and the focused step-out sampling. The Crown Vantage sampling is described in Section 3.4.3 of the Area 1 SRI/FS Work Plan. The focused step-out sampling is described in Section 3.4.4 of the Area 1 SRI/FS Work Plan.
- During the week of July 13, ARCADIS is scheduled to collect additional bathymetric monitoring data in the former Plainwell Impoundment. This work is discussed in Section 3.4.5 of the Area 1 SRI/FS Work Plan.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #28, JUNE 2009

- On July 14, USEPA is scheduled to hold a public project update meeting in Plainwell. Topics will include the upcoming Plainwell No. 2 Dam Area TCRA.
- By July 16, ARCADIS is scheduled to submit the final design report for the Plainwell No. 2 Dam Area TCRA.
- Validated data for the SDGs received in May from TestAmerica will be included in the July monthly report. These data include the first round of groundwater and surface water samples collected in the Plainwell TCRA area (SDG KAL459). These samples were collected in accordance with Section 3.4.6 of the Area 1 SRI/FS Work Plan.
- By August 15, ARCADIS is scheduled to submit to USEPA the first Monthly Progress Report for the Plainwell No. 2 Dam Area TCRA. This submittal is discussed in Paragraph 19.a of the June 2009 AOC.
- On August 17, ARCADIS is scheduled to submit to USEPA the Semi-Annual Progress Report for the period from February through July 2009. This submittal is discussed in Section 7.2 of the SOW.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #28, June 2009

Table A — Water Elevations — Wells and Staff Gauges — Plainwell TCRA Area

Location	Water Level Elevation Date			
	6/16/09	6/18/09	6/23/09	6/25/09
Staff Gages				
SG-1	707.25	707.25	708.15	708.18
SG-2	-	-	-	-
SG-3	702.50	702.55	703.50	703.58
SG-4	700.76	700.80	702.46	702.52
SG-5	702.23	702.28	703.68	703.75
Monitoring Wells				
MW-1	701.01	701.06	702.46	702.52
MW-2	701.20	701.24	702.64	702.70
MW-3	701.65	701.70	703.12	703.19
MW-4	702.12	702.17	703.55	703.62
MW-5	702.42	702.48	703.84	703.90
MW-6	701.05	701.11	702.51	702.58
MW-7	701.39	701.44	702.85	702.92
MW-8	701.80	701.85	703.28	703.35
MW-9	702.19	702.25	703.42	703.51
MW-10	703.96	704.01	705.28	704.33
MW-11	704.53	704.56	705.81	705.88
MW-12	705.73	705.77	707.01	707.02
MW-13	704.89	704.93	706.12	706.19
MW-14	705.22	705.27	706.45	706.51
MW-15	705.56	705.61	706.71	706.78
Groundwater - Surface Water Gradients (ft/ft) (positive gradient indicates groundwater flow to river)				
MW-5 - SG-5	0.19	0.20	0.16	0.15
MW-1 - SG-4	0.25	0.26	0.00	0.00

Note:

Elevations are based on the National Geodetic Vertical Datum of 1929.

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Table B — Plainwell TCRA Area — Groundwater and Surface Water Samples
Collected in June 2009

Date Sampled	Sample ID	Location ID	Oversight Split Sample
6/29/2009	TS40017	MW-12	PGW-MW12-01
	TS40018	MW-14	
	TS40019	MW-11	
	TS31003	SG-5	
6/30/2009	TS40020 [TS40021]	MW-13	
	TS40022	MW-15	
	TS40023	MW-10	PGW-MW10-01 [PGW-MW10-03]
	TS40024 ¹	MW-5	
	TS40025	MW-4	
7/1/2009	TS40026	MW-8	
	TS40027	MW-3	PGW-MW3-01
	TS40028	MW-7	
	TS40029 ¹	MW-2	
	TS40030 [TS40031]	MW-6	PGW-MW6-01
	TS40032	MW-1	PGW-MW1-01
7/2/2009	TS40033	MW-9	
	TS31004 ¹ [TS31005]	SG-5	

Notes:

All samples sent to TestAmerica Laboratories, Inc. for the following analyses: PCBs, total organic carbon (TOC), total dissolved solids (TDS), total suspended solids (TSS), chloride, sulfate and alkalinity, and total metals (i.e., sodium, calcium, potassium, magnesium).

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Oversight split samples were collected by CDM on behalf of MDEQ.

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Table C — Lake Allegan (Area 6) — Radionuclide Data Received in June 2009

Date Collected	Location	Interval (cm)	Sample ID	SDG
5/13/2009	ALG-10	0-1	K16845	Pb0173
		1-2	K16846	Pb0173
		2-3	K16847	Pb0173
		3-4	K16848	Pb0173
		4-5	K16849	Pb0173
		5-6	K16850	Pb0173
		6-7	K16851	Pb0173
		7-8	K16852	Pb0173
		8-9	K16853	Pb0173
		9-10	K16854	Pb0173
		10-12	K16855	Pb0173
		12-14	K16856	Pb0173
		14-16	K16857	Pb0173
		16-18	K16858	Pb0173
		18-20	K16859	Pb0173
		20-25	K16860	Pb0173
		25-30	K16861	Pb0173
		30-35	K16862	Pb0173
		35-40	K16863	Pb0173
		34-40	K16864	
		40-45	K16865	Pb0173
45-50	K16866			
50-55	K16867			
55-60	K16868			
55-60	K16869			
60-65	K16870			
65-70	K16871			
5/14/2009	ALG-5	0-1	K16965	
		1-2	K16966	
		2-3	K16967	
		3-4	K16968	
		3-4	K16969	
		4-5	K16970	
		5-6	K16971	
		6-7	K16972	
		7-8	K16973	
		8-9	K16974	
		9-10	K16975	
		10-12	K16976	
		12-14	K16977	
		14-16	K16978	
		16-18	K16979	
16-18	K16980			
18-20	K16981			
20-25	K16982			
25-30	K16983			

See Note on Page 3.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table C — Lake Allegan (Area 6) — Radionuclide Data Received in June 2009

Date Collected	Location	Interval (cm)	Sample ID	SDG
5/14/2009 (Cont.)	ALG-5 (Cont.)	30-35	K16984	
		35-40	K16985	
		40-45	K16986	
		45-50	K16987	
		50-55	K16988	
		60-65	K16989	
5/14/2009	ALG-6	0-1	K16990	
		1-2	K16991	
		2-3	K16992	
		3-4	K16993	
		4-5	K16994	
		4-5	K16995	
		5-6	K16996	
		6-7	K16997	
		7-8	K16998	
		8-9	K16999	
		9-10	K17000	
		9-10	K17001	
		10-12	K17002	
		12-14	K17003	
		14-16	K17004	
		16-18	K17005	
		18-20	K17006	
		20-25	K17007	
		25-30	K17008	
		30-35	K17009	
35-40	K17010			
40-45	K17011			
45-50	K17012			
50-55	K17013			
55-60	K17014			
60-65	K17015			
5/14/2009	ALG-7	0-1	K16878	
		1-2	K16879	
		2-3	K16880	
		2-3	K16881	
		3-4	K16882	
		4-5	K16883	
		5-6	K16884	
		6-7	K16885	
		7-8	K16886	
		8-9	K16887	
		9-10	K16888	
		10-12	K16889	
		12-14	K16890	
		14-16	K16891	

See Note on Page 3.

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Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table C — Lake Allegan (Area 6) — Radionuclide Data Received in June 2009

Date Collected	Location	Interval (cm)	Sample ID	SDG
5/14/2009 (Cont.)	ALG-7 (Cont.)	14-16	K16892	
		16-18	K16893	
		18-20	K16894	
		20-25	K16895	
		25-30	K16896	
		30-35	K16897	
		35-40	K16898	
		40-45	K16899	
		45-50	K16900	
		50-55	K16901	
		55-60	K16902	
		60-65	K16903	
		65-70	K16904	
5/14/2009	ALG-8	0-1	K16908	
		1-2	K16909	
		2-3	K16910	
		3-4	K16911	
		4-5	K16912	
		5-6	K16913	
		5-6	K16914	
		6-7	K16915	
		7-8	K16916	
		8-9	K16917	
		9-10	K16918	
		10-12	K16919	
		12-14	K16920	
		12-14	K16921	
		14-16	K16922	
		16-18	K16923	
		18-20	K16924	
		20-25	K16925	
		25-30	K16926	
		30-35	K16927	
		35-40	K16928	
40-45	K16929			
45-50	K16930			
50-55	K16931			
55-56	K16932			

Note:

All samples were submitted to Mass Spec Services for Pb-210 and Cs-137 radionuclide analysis.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #28, June 2009

Table D — Lake Allegan (Area 6) — Frozen Cores

Date Collected	Location	Interval (cm)	Sample ID	Description
5/13/2009	ALG-9A	0-1	K16793	Black silty fine sand
		1-2	K16794	Black silty fine sand
		2-3	K16795	Black silty fine sand
		3-4	K16796	Black silty fine sand
		4-5	K16797	Black silty fine sand
		5-6	K16798	Black silty fine sand
		6-7	K16799	Black silt with fine sand
		7-8	K16800	Black silt with fine sand
		8-9	K16801	Dark gray to black silt
		9-10	K16802	Dark gray to black silt
		10-12	K16803	Dark gray to black silt
		12-14	K16804	Dark gray to black silt
		14-16	K16805	Dark gray to black silt
		16-18	K16806	Dark gray to black silt
		18-20	K16807	Dark gray to black silt
		20-25	K16808	Dark gray to black silt
		25-30	K16809	Dark gray to black silt
		30-35	K16810	Dark gray to black silt
		35-40	K16811	Dark gray to black silt
		40-45	K16812	Dark gray to black silt
		45-50	K16813	Dark gray to black silt
50-55	K16814	Black silty clay, trace organics		
55-60	K16815	Black silty clay, trace organics		
60-65	K16816	Black silty clay, trace organics		
65-70	K16817	Black silty clay, trace organics		
5/13/2009	ALG-10	70-75	K16872	Dark gray silt
		75-80	K16873	Dark gray silt
		80-85	K16874	Dark gray silt
		85-90	K16875	Dark gray silt
		90-95	K16876	Dark gray silt
95-100	K16877	Dark gray silt		
5/13/2009	SPI-40	0-1	K16818	Black silty fine sand
		1-2	K16819	Black silty fine sand
		2-3	K16820	Black silty fine sand
		3-4	K16821	Black silty fine sand
		4-5	K16822	Black silty fine sand
		5-6	K16823	Black silty fine sand
		6-7	K16824	Black silty fine sand
		7-8	K16825	Black silty fine sand
		8-9	K16826	Black silty fine sand
		9-10	K16827	Black silt, trace fine sand
		10-12	K16828	Black silt, trace fine sand
		12-14	K16829	Black silt, trace fine sand
		14-16	K16830	Black silt, trace fine sand
		16-18	K16831	Dark gray to black silt, trace fine sand, trace organics
		18-20	K16832	Dark gray to black silt, trace fine sand, trace organics
		20-25	K16833	Black silt to dark gray trace organics
		25-30	K16834	Black silt to dark gray trace organics
30-35	K16835	Black silt to dark gray trace organics		

See Notes on Page 2.

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Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table D — Lake Allegan (Area 6) — Frozen Cores

Date Collected	Location	Interval (cm)	Sample ID	Description
5/13/2009 (Cont.)	SPI-40 (Cont.)	35-40	K16836	Black silt
		40-45	K16837	Black silt
		45-50	K16838	Black silt
		50-55	K16839	Black silt
		55-60	K16840	Black silt
		60-65	K16841	Black silt
		65-70	K16842	Dark gray to black silt, organics
		70-75	K16843	Dark gray to black silt, organics
5/14/2009	ALG-7	70-75	K16905	Dark gray to black clayey silt, trace organics
		75-80	K16906	Dark gray to black clayey silt, trace organics
		80-85	K16907	Dark gray to black clayey silt, trace organics
5/14/2009	ALG-9	0-1	K16933	Dark gray to black silty fine sand, trace organics
		1-2	K16934	Dark gray to black silty fine sand, trace organics
		2-3	K16935	Dark gray to black silty fine sand, trace organics
		3-4	K16936	Dark gray to black silty fine sand, trace organics
		4-5	K16937	Dark gray to black silty fine sand, trace organics
		5-6	K16938	Dark gray to black silty fine sand, trace organics
		6-7	K16939 ¹	Dark gray to black silty fine sand, trace organics
		7-8	K16940	Dark gray to black silt, trace fine sand
		8-9	K16941	Dark gray to black silt, trace fine sand
		9-10	K16942	Dark gray to black silt, trace fine sand
		10-12	K16943	Dark gray to black silt, trace fine sand
		10-12	K16944 ¹	Dark gray to black silt, trace fine sand
		12-14	K16945 ¹	Dark gray to black silt, trace fine sand
		14-16	K16946	Dark gray to black silt, trace fine sand, trace organics
		16-18	K16947	Dark gray to black silt, trace fine sand, trace organics
		18-20	K16948	Dark gray to black silt, trace fine sand, trace organics
		20-25	K16949	Dark gray to black silt, trace fine sand, trace organics
		25-30	K16950	Dark gray to black silt
		30-35	K16951	Dark gray to black silt
		35-40	K16952	Dark gray to black silt
		40-45	K16953	Dark gray to black silt
		45-50	K16954	Dark gray to black silt
		50-55	K16955	Dark gray to black silt
		55-60	K16956	Dark gray to black silt
60-65	K16957	Dark gray to black silt		
65-70	K16958	Dark gray to black silt		
70-75	K16959	Dark gray to black silt		
75-80	K16960	Dark gray to black silt		
80-85	K16961	Dark gray to black silt		
85-90	K16962	Dark gray to black silt		
90-95	K16963	Dark gray to black silt		
95-100	K16964	Dark gray to black silt		

Notes:

¹MS/MSD performed on this sample.

Cores frozen in ARCADIS' Kalamazoo field office.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table E — Results for Post-Removal Surface Sediment Samples in Plainwell TCRA Area - Data Received in April 2009

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56250 0 - 2 03/10/09 PCS-9A-1	K56251 0 - 2 03/10/09 PCS-9A-2	K56252 0 - 2 03/10/09 PCS-9B-3	K56253 0 - 2 03/10/09 PCS-9B-1	K56254 0 - 2 03/10/09 PCS-9B-2	K56255 0 - 2 03/10/09 PCS-9A-3	K56256 0 - 2 03/10/09 PCS-10A-1	K56257 0 - 2 03/10/09 PCS-10A-2	K56258 0 - 2 03/10/09 PCS-10A-3	K56259 0 - 2 03/10/09 PCS-10B-1	K56260 0 - 2 03/10/09 PCS-10B-2
PCB Aroclors												
Aroclor-1016	mg/kg	0.071 U	0.13 U	0.062 U	0.068 U	0.062 U	0.063 U	0.060 U	0.063 U	0.096 U	0.062 U	0.063 U
Aroclor-1221	mg/kg	0.071 U	0.13 U	0.062 U	0.068 U	0.062 U	0.063 U	0.060 U	0.063 U	0.096 U	0.062 U	0.063 U
Aroclor-1232	mg/kg	0.071 U	0.13 U	0.062 U	0.068 U	0.062 U	0.063 U	0.060 U	0.063 U	0.096 U	0.062 U	0.063 U
Aroclor-1242	mg/kg	0.071 U	0.13 U	0.039 J	0.068 U	0.034 J	0.063 U	0.11	0.063 U	0.096 U	0.062 U	0.063 U
Aroclor-1248	mg/kg	0.071 U	0.13 U	0.062 U	0.068 U	0.062 U	0.034 J	0.060 U	0.063 U	0.096 U	0.062 U	0.063 U
Aroclor-1254	mg/kg	0.071 U	0.13 U	0.062 U	0.068 U	0.062 U	0.063 U	0.060 U	0.063 U	0.096 U	0.062 U	0.063 U
Aroclor-1260	mg/kg	0.071 U	0.13 U	0.062 U	0.068 U	0.062 U	0.063 U	0.060 U	0.063 U	0.096 U	0.062 U	0.063 U
Total PCBs	mg/kg	0.071 U	0.13 U	0.039 J	0.068 U	0.034 J	0.034 J	0.11	0.063 U	0.096 U	0.062 U	0.063 U
Miscellaneous												
Percent Solids	%	69.9	38	79.5	74.5	80.3	80.1	82.8	79	52.1	81.4	79.4
TOC												
Total Organic Carbon	mg/kg	22300 J	51900	11500	17400	9280 J	8600 J	2930 J	34700 J	33000	10980 J	37900 J
Grain Size Analysis												
Gravel	%	10.4	84.1	51	24.2	64.1	68.1	20.9	63.1	6.1	61	79.5
Coarse Sand	%	19	3.3	8.2	12.2	7	10	9.9	12.6	3.5	15.1	2.3
Medium Sand	%	43.2	3.4	22	30.3	18.1	11.3	48	13.4	29.5	17.7	7.8
Fine Sand	%	18.3	1.2	12.2	23.9	8.5	9.9	18.7	8.5	14.7	1.3	4
Silt	%	5.5	7.4	3.9	6.8	1.3	0.7	2.1	1.6	44	4.9	5
Clay	%	3.6	0.6	2.7	2.6	0.9	0	0.4	0.7	2.1	0	1.4
Sieve, 3 inch	% passing	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	56.3 (25000)	74.4 (25000)	100 (25000)	68.2 (25000)	74 (25000)	100 (25000)	80.9 (25000)	100 (25000)	79.6 (25000)	75.5 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	42.8 (19000)	60 (19000)	100 (19000)	57.5 (19000)	62.7 (19000)	89.3 (19000)	80.9 (19000)	100 (19000)	69.5 (19000)	70 (19000)
Sieve, 3/8 inch	% passing	95.8 (9500)	19.5 (9500)	57.9 (9500)	87 (9500)	42 (9500)	44.1 (9500)	85.4 (9500)	56.4 (9500)	96.8 (9500)	51.8 (9500)	28.6 (9500)
Sieve, #4	% passing	89.6 (4750)	15.9 (4750)	49 (4750)	75.8 (4750)	35.9 (4750)	31.9 (4750)	79.1 (4750)	36.9 (4750)	93.9 (4750)	39 (4750)	20.5 (4750)
Sieve, #10	% passing	70.6 (2000)	12.7 (2000)	40.8 (2000)	63.6 (2000)	28.9 (2000)	21.9 (2000)	69.2 (2000)	24.2 (2000)	90.4 (2000)	23.9 (2000)	18.2 (2000)
Sieve, #20	% passing	39.2 (850)	10.3 (850)	31 (850)	51.7 (850)	20.7 (850)	15.6 (850)	51.2 (850)	15.6 (850)	72.6 (850)	12.3 (850)	13.1 (850)
Sieve, #40	% passing	27.4 (425)	9.3 (425)	18.8 (425)	33.3 (425)	10.8 (425)	10.6 (425)	21.2 (425)	10.8 (425)	60.9 (425)	6.2 (425)	10.4 (425)
Sieve, #60	% passing	18.9 (250)	8.7 (250)	10.1 (250)	14.5 (250)	4.3 (250)	5 (250)	4.8 (250)	7.6 (250)	53.3 (250)	5.2 (250)	8.8 (250)
Sieve, #80	% passing	14.2 (180)	8.5 (180)	7.8 (180)	10.9 (180)	2.8 (180)	2.2 (180)	3.3 (180)	5 (180)	50 (180)	5 (180)	8 (180)
Sieve, #100	% passing	12.5 (150)	8.4 (150)	7.3 (150)	10.3 (150)	2.5 (150)	1.4 (150)	2.9 (150)	3.9 (150)	48.8 (150)	5 (150)	7.6 (150)
Sieve, #200	% passing	9.1 (75)	8.1 (75)	6.6 (75)	9.4 (75)	2.2 (75)	0.7 (75)	2.5 (75)	2.3 (75)	46.2 (75)	4.9 (75)	6.4 (75)
Hydrometer Reading 1	% passing	7.2 (36)	2.2 (36)	5.8 (35)	8.7 (35)	2.2 (36)	0.6 (37)	1.2 (37)	2 (37)	4.8 (36)	0.3 (37)	3.7 (36)
Hydrometer Reading 2	% passing	6.5 (23)	1.6 (23)	5 (22)	7.7 (22)	1.9 (23)	0.6 (24)	1.2 (23)	1.7 (23)	4.8 (23)	0.3 (24)	3.1 (23)
Hydrometer Reading 3	% passing	5 (13.3)	1.3 (13.5)	3.9 (13.1)	4.6 (13.2)	1.6 (13.4)	0.3 (13.6)	1.2 (13.5)	1.4 (13.5)	3.8 (13.3)	0.3 (13.6)	2.6 (13.2)
Hydrometer Reading 4	% passing	4.3 (9.4)	0.9 (9.6)	3.5 (9.5)	3.1 (9.6)	0.9 (9.4)	0 (9.5)	0.8 (9.4)	1 (9.3)	2.7 (9.5)	0 (9.7)	1.7 (9.5)
Hydrometer Reading 5	% passing	3.6 (6.8)	0.6 (6.9)	2.7 (6.8)	2.6 (6.5)	0.9 (6.8)	0 (6.9)	0.4 (6.9)	0.7 (6.8)	2.1 (6.6)	0 (7)	1.4 (6.6)
Hydrometer Reading 6	% passing	2.9 (3.3)	0 (3.3)	1.5 (3.3)	1.5 (3.3)	0.3 (3.4)	0 (3.5)	0.4 (3.2)	0.3 (3.3)	1.1 (3.3)	0 (3.4)	0.9 (3.4)
Hydrometer Reading 7	% passing	2 (1.4)	0 (1.4)	1.1 (1.4)	0.9 (1.4)	0.3 (1.4)	0 (1.4)	0 (1.4)	0.3 (1.4)	0.4 (1.4)	0 (1.4)	0.6 (1.4)

See Notes on Page 5.

Kalamazoo River Study Group
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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #28, June 2009

Table E — Results for Post-Removal Surface Sediment Samples in Plainwell TCRA Area - Data Received in April 2009

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56261 0 - 2 03/10/09 PCS-10B-3	K56262 0 - 2 03/10/09 PCS-MCC-1	K56263 0 - 2 03/10/09 PCS-MCC-2	K56264 0 - 2 03/10/09 PCS-MCC-3	K56265 0 - 2 03/10/09 PCS-11A-1	K56266 0 - 2 03/10/09 PCS-11A-2	K56267 0 - 2 03/10/09 PCS-11A-3	K56268 0 - 2 03/10/09 PCS-12B-2	K56269 0 - 2 03/10/09 PCS-12B-3	K56272 0 - 2 03/12/09 PCS-11B-1	K56273 0 - 2 03/12/09 PCS-11B-2	K56274 0 - 2 03/12/09 PCS-11B-3
PCB Aroclors													
Aroclor-1016	mg/kg	0.057 U	0.073 U	0.067 U	0.059 U	0.062 U	0.065 U	0.053 U	0.067 U	0.082 U [0.26 U]	0.12 U	0.11 U	0.075 U
Aroclor-1221	mg/kg	0.057 U	0.073 U	0.067 U	0.059 U	0.062 U	0.065 U	0.053 U	0.067 U	0.082 U [0.26 U]	0.12 U	0.11 U	0.075 U
Aroclor-1232	mg/kg	0.057 U	0.073 U	0.067 U	0.059 U	0.062 U	0.065 U	0.053 U	0.067 U	0.082 U [0.26 U]	0.12 U	0.11 U	0.075 U
Aroclor-1242	mg/kg	0.057 U	0.073 U	0.067 U	0.059 U	0.081	0.065 U	0.053 U	0.067 U	0.082 UJ [0.71 J]	0.12 U	0.11 U	0.047 J
Aroclor-1248	mg/kg	0.057 U	0.073 U	0.067 U	0.059 U	0.062 U	0.065 U	0.053 U	0.067 U	0.082 U [0.26 U]	0.12 U	0.061 J	0.082
Aroclor-1254	mg/kg	0.057 U	0.073 U	0.067 U	0.059 U	0.062 U	0.065 U	0.053 U	0.067 U	0.082 UJ [1.1 J]	0.12 U	0.11 U	0.071 J
Aroclor-1260	mg/kg	0.057 U	0.073 U	0.067 U	0.059 U	0.062 U	0.065 U	0.053 U	0.067 U	0.082 U [0.15 J]	0.12 U	0.11 U	0.075 U
Total PCBs	mg/kg	0.057 U	0.073 U	0.067 U	0.059 U	0.081	0.065 U	0.053 U	0.067 U	0.082 UJ [2.0 J]	0.12 U	0.061 J	0.20 J
Miscellaneous													
Percent Solids	%	88.1	69.1	74.7	84	81.2	77.2	94.6	75.2	61 [57.7]	41.5	45.4	66.8
TOC													
Total Organic Carbon	mg/kg	12500 J	21200 J	3590 J	21100 J	51900	648 U	34700 J	25400 J	50700 J [38500]	71900	37400	8960
Grain Size Analysis													
Gravel	%	68.6	NA	6.7	8.1	5							
Coarse Sand	%	10.7	NA	6.2	4.6	0.6							
Medium Sand	%	9.1	NA	5.2	13.2	4.4							
Fine Sand	%	2.2	NA	12.7	43.3	80.9							
Silt	%	8.8	NA	41.3	18.9	5.1							
Clay	%	0.5	NA	28	11.9	4.1							
Sieve, 3 inch	% passing	100 (75000)	NA	100 (75000)	100 (75000)	100 (75000)							
Sieve, 2 inch	% passing	100 (50000)	NA	100 (50000)	100 (50000)	100 (50000)							
Sieve, 1.5 inch	% passing	100 (37500)	NA	100 (37500)	100 (37500)	100 (37500)							
Sieve, 1 inch	% passing	76.9 (25000)	NA	100 (25000)	100 (25000)	100 (25000)							
Sieve, 3/4 inch	% passing	59.5 (19000)	NA	100 (19000)	100 (19000)	100 (19000)							
Sieve, 3/8 inch	% passing	37.9 (9500)	NA	100 (9500)	95.1 (9500)	95.7 (9500)							
Sieve, #4	% passing	31.4 (4750)	NA	93.3 (4750)	91.9 (4750)	95 (4750)							
Sieve, #10	% passing	20.6 (2000)	NA	87.2 (2000)	87.3 (2000)	94.4 (2000)							
Sieve, #20	% passing	13.7 (850)	NA	84.9 (850)	82.4 (850)	93.7 (850)							
Sieve, #40	% passing	11.5 (425)	NA	81.9 (425)	74.1 (425)	90 (425)							
Sieve, #60	% passing	10.6 (250)	NA	78.9 (250)	55.9 (250)	47.2 (250)							
Sieve, #80	% passing	10.1 (180)	NA	76.9 (180)	40.8 (180)	20.1 (180)							
Sieve, #100	% passing	9.9 (150)	NA	75.6 (150)	35.9 (150)	14.1 (150)							
Sieve, #200	% passing	9.3 (75)	NA	69.3 (75)	30.8 (75)	9.2 (75)							
Hydrometer Reading 1	% passing	1.8 (37)	NA	50.6 (33)	21.7 (33)	8.9 (36)							
Hydrometer Reading 2	% passing	1.5 (23)	NA	46.8 (21)	19.9 (21)	7.6 (23)							
Hydrometer Reading 3	% passing	1.3 (13.5)	NA	39.3 (12.6)	16.7 (12.6)	6.9 (13.3)							
Hydrometer Reading 4	% passing	0.7 (9.5)	NA	33.6 (9)	14.3 (8.9)	4.8 (9.5)							
Hydrometer Reading 5	% passing	0.5 (7)	NA	28 (6.7)	11.9 (6.7)	4.1 (6.8)							
Hydrometer Reading 6	% passing	0.3 (3.4)	NA	18.5 (3.3)	8 (3.3)	2 (3.3)							
Hydrometer Reading 7	% passing	0.3 (1.4)	NA	11.3 (1.4)	5.6 (1.4)	2 (1.4)							

See Notes on Page 5.

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Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #28, June 2009

Table E — Results for Post-Removal Surface Sediment Samples in Plainwell TCRA Area - Data Received in April 2009

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56275 0 - 2 03/12/09 PCS-12A-1	K56277 0 - 2 03/12/09 PCS-12A-2	K56278 0 - 2 03/12/09 PCS-12A-3	K56279 0 - 2 03/12/09 PCS-13B-3	K56280 0 - 2 03/12/09 PCS-13B-2	K56281 0 - 2 03/13/09 PCS-13B-1	K56282 0 - 2 03/13/09 PCS-13A-2	K56283 0 - 2 03/13/09 PCS-13A-1	K56284 0 - 2 03/13/09 PCS-12B-1	K56285 0 - 2 03/13/09 PCS-CD1-1	K56286 0 - 2 03/13/09 PCS-CD1-2
PCB Aroclors												
Aroclor-1016	mg/kg	0.15 U [3.5 UJ]	0.15 U	0.12 U	0.33 U	0.30 U	2.2 U	0.092 U	0.083 U	0.062 U	0.092 U	0.23 U
Aroclor-1221	mg/kg	0.15 U [3.5 UJ]	0.15 U	0.12 U	0.33 U	0.30 U	2.2 U	0.092 U	0.083 U	0.062 U	0.092 U	0.23 U
Aroclor-1232	mg/kg	0.15 U [3.5 UJ]	0.15 U	0.12 U	0.33 U	0.30 U	2.2 U	0.092 U	0.083 U	0.062 U	0.092 U	0.23 U
Aroclor-1242	mg/kg	0.32 J [35 J]	0.15 U	0.12 U	1.3	4.3	14	0.058 J	0.083 U	0.062 U	0.62	1.9
Aroclor-1248	mg/kg	0.15 UJ [4.9 J]	0.15 U	0.12 U	1.1	0.90	2.5	0.092 U	0.083 U	0.062 U	0.16	0.23 U
Aroclor-1254	mg/kg	0.15 U [3.5 UJ]	0.15 U	0.12 U	0.53	0.30 U	2.2 U	0.092 U	0.083 U	0.062 U	0.12	0.17 J
Aroclor-1260	mg/kg	0.15 U [3.5 UJ]	0.15 U	0.12 U	0.33 U	0.30 U	2.2 U	0.092 U	0.083 U	0.062 U	0.092 U	0.23 U
Total PCBs	mg/kg	0.32 J [40 J]	0.15 U	0.12 U	2.9	5.2	17	0.058 J	0.083 U	0.062 U	0.90	2.1 J
Miscellaneous												
Percent Solids	%	33.5 [28.9]	32.8	40.1	30	32.6	56.6	53.8	60.3	79.9	53.7	43.7
TOC												
Total Organic Carbon	mg/kg	79400 [74500]	89300	85700	76700	83300	42200	64600 J	46400	2250 J	56500	85700
Grain Size Analysis												
Gravel	%	4.1 [0.4]	40.1	22	88.3	0	12.2	18	5.4	10.6	29.4	6.4
Coarse Sand	%	1.3 [0.5]	2.5	4.3	1.1	0.3	11.5	13	8.6	13.1	11.2	5.9
Medium Sand	%	5.5 [4.5]	1.5	2.1	1.4	0.4	19.3	29.6	22.8	65.2	14.5	3.5
Fine Sand	%	8.3 [7.1]	7.4	4.4	2.2	2.4	11.3	5.8	10.7	8.9	15.5	16.1
Silt	%	59.7 [67.6]	37.7	43.6	4.9	66.1	26	28.1	37.6	1.8	13.8	36.7
Clay	%	21.2 [20]	10.7	23.6	2.1	30.8	19.8	5.7	14.8	0.5	15.5	31.4
Sieve, 3 inch	% passing	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	52.1 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	15.3 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000) [100 (19000)]	100 (19000)	100 (19000)	15.3 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100 (9500) [100 (9500)]	67.6 (9500)	82.7 (9500)	14.2 (9500)	100 (9500)	100 (9500)	90.1 (9500)	96.1 (9500)	93.7 (9500)	84.3 (9500)	100 (9500)
Sieve, #4	% passing	95.9 (4750) [99.6 (4750)]	59.9 (4750)	78 (4750)	11.7 (4750)	100 (4750)	87.8 (4750)	82 (4750)	94.6 (4750)	89.4 (4750)	70.6 (4750)	93.6 (4750)
Sieve, #10	% passing	94.6 (2000) [99.1 (2000)]	57.4 (2000)	73.7 (2000)	10.6 (2000)	99.7 (2000)	76.3 (2000)	69.1 (2000)	86 (2000)	76.3 (2000)	59.4 (2000)	87.7 (2000)
Sieve, #20	% passing	92.9 (850) [97.7 (850)]	56.6 (850)	72.7 (850)	9.7 (850)	99.5 (850)	64.7 (850)	52.6 (850)	72.2 (850)	40.3 (850)	51.5 (850)	85.7 (850)
Sieve, #40	% passing	89.1 (425) [94.7 (425)]	55.9 (425)	71.6 (425)	9.2 (425)	99.3 (425)	57.1 (425)	39.5 (425)	63.1 (425)	11.1 (425)	44.8 (425)	84.2 (425)
Sieve, #60	% passing	87 (250) [92.8 (250)]	55 (250)	69.3 (250)	8.7 (250)	98.7 (250)	50.5 (250)	35.6 (250)	56.4 (250)	3 (250)	40.4 (250)	82.3 (250)
Sieve, #80	% passing	85.9 (180) [92.2 (180)]	54.5 (180)	68.8 (180)	8.4 (180)	98.2 (180)	48.4 (180)	35.3 (180)	55.3 (180)	2.4 (180)	38.2 (180)	80.3 (180)
Sieve, #100	% passing	85.5 (150) [91.8 (150)]	54.2 (150)	68.7 (150)	8.2 (150)	97.9 (150)	47.7 (150)	35.2 (150)	55 (150)	2.3 (150)	36.7 (150)	77.8 (150)
Sieve, #200	% passing	80.9 (75) [87.6 (75)]	48.5 (75)	67.2 (75)	7 (75)	96.9 (75)	45.7 (75)	33.8 (75)	52.4 (75)	2.2 (75)	29.3 (75)	68.1 (75)
Hydrometer Reading 1	% passing	54.8 (34) [50.6 (34)]	36.2 (35)	51.1 (33)	4.8 (36)	67.8 (34)	38.5 (34)	17.2 (34)	35.5 (34)	2.2 (37)	27.7 (34)	55.5 (33)
Hydrometer Reading 2	% passing	42.8 (22) [44 (22)]	27.6 (23)	41.2 (22)	3.9 (23)	62.1 (22)	35.5 (21)	13.9 (22)	31.1 (22)	2.2 (24)	26.6 (21)	49.9 (21)
Hydrometer Reading 3	% passing	38 (12.9) [35.1 (12.9)]	21.1 (13.3)	37.3 (12.6)	3.5 (13.3)	53.6 (12.7)	29 (12.7)	10.6 (13.1)	23.7 (12.8)	1.7 (13.6)	22.2 (12.6)	44.4 (12.3)
Hydrometer Reading 4	% passing	28.4 (9.3) [26.2 (9.5)]	16.8 (9.7)	29.5 (9)	2.6 (9.4)	42.2 (9)	22.9 (8.9)	7.3 (9.4)	19.2 (9.2)	1 (9.7)	18.8 (8.9)	38.8 (8.8)
Hydrometer Reading 5	% passing	21.2 (6.8) [20 (6.8)]	10.7 (6.6)	23.6 (6.5)	2.1 (6.9)	30.8 (6.7)	19.8 (6.6)	5.7 (6.6)	14.8 (6.8)	0.5 (6.8)	15.5 (6.6)	31.4 (6.4)
Hydrometer Reading 6	% passing	11.6 (3.3) [13.3 (3.3)]	6.4 (3.3)	15.7 (3.3)	1.2 (3.5)	19.9 (3.2)	13.9 (3.2)	2.5 (3.3)	8.9 (3.3)	0.5 (3.5)	10 (3.4)	22.2 (3.2)
Hydrometer Reading 7	% passing	6.8 (1.4) [8.5 (1.4)]	6.1 (1.4)	7.5 (1.4)	0.8 (1.4)	10.9 (1.4)	10.5 (1.4)	2.3 (1.4)	4.2 (1.4)	0.5 (1.4)	6.5 (1.4)	12.6 (1.4)

See Notes on Page 5.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #28, June 2009

Table E — Results for Post-Removal Surface Sediment Samples in Plainwell TCRA Area - Data Received in April 2009

Sample Name: Sample Depth(in): Date Collected: Location ID:	Units	K56287 0 - 2 03/13/09 PCS-CD1-3	K56289 0 - 2 03/13/09 PCS-CD2-1	K56290 0 - 2 03/13/09 PCS-CD2-2	K56291 0 - 2 03/13/09 PCS-CD2-3	K56292 0 - 2 03/13/09 PCS-MCA-1	K56293 0 - 2 03/13/09 PCS-MCA-2	K56294 0 - 2 03/13/09 PCS-MCA-3	K56295 0 - 2 03/13/09 PCS-MCB-1	K56296 0 - 2 03/13/09 PCS-MCB-2	K56297 0 - 2 03/13/09 PCS-MCB-3	K56298 0 - 2 03/13/09 PCS-13A-3
PCB Aroclors												
Aroclor-1016	mg/kg	0.061 U [0.059 U]	0.067 U	0.34 U	0.069 U	0.068 U	0.37 U	0.056 U	0.077 U	0.052 U	0.80 U	0.069 U
Aroclor-1221	mg/kg	0.061 U [0.059 U]	0.067 U	0.34 U	0.069 U	0.068 U	0.37 U	0.056 U	0.077 U	0.052 U	0.80 U	0.069 U
Aroclor-1232	mg/kg	0.061 U [0.059 U]	0.067 U	0.34 U	0.069 U	0.068 U	0.37 U	0.056 U	0.077 U	0.052 U	0.80 U	0.069 U
Aroclor-1242	mg/kg	0.12 [0.092]	0.067 U	1.4	0.069 U	0.042 J	1.9	0.056 U	0.077 U	0.052 U	5.6	0.23
Aroclor-1248	mg/kg	0.061 U [0.058 J]	0.067 U	0.55	0.41	0.068 U	0.37 U	0.056 U	0.077 U	0.052 U	0.80 U	0.083
Aroclor-1254	mg/kg	0.088 [0.11]	0.067 U	1.1	0.069 U	0.068 U	0.37 U	0.056 U	0.077 U	0.052 U	1.1	0.13
Aroclor-1260	mg/kg	0.061 U [0.059 U]	0.067 U	0.34 U	0.041 J	0.068 U	0.37 U	0.056 U	0.077 U	0.052 U	0.80 U	0.069 U
Total PCBs	mg/kg	0.21 [0.26 J]	0.067 U	3.1	0.45 J	0.042 J	1.9	0.056 U	0.077 U	0.052 U	6.7	0.44
Miscellaneous												
Percent Solids	%	82.1 [83.5]	73.8	43.9	73.4	72.6	68.5	89.8	64.9	97	62.6	71.8
TOC												
Total Organic Carbon	mg/kg	12600 J [16700 J]	2840	30600 J	6860 J	3770 J	18000	24100 J	30200 J	821 J	38300	16600 J
Grain Size Analysis												
Gravel	%	30.8 [27.9]	11.1	3.5	0	56.3	46.9	76.1	55.2	90.6	2.7	5.6
Coarse Sand	%	15.9 [18.9]	18	4.9	0.8	7.6	8.6	11.8	14.9	0.3	2.7	5
Medium Sand	%	39.1 [39]	52.9	21.7	2.4	31.7	29.1	11.4	18.8	0.1	5.3	24.1
Fine Sand	%	10.9 [11.3]	17.3	57.8	81.5	4.1	6.6	1.1	7	0	25.9	49.9
Silt	%	1.9 [1.5]	0.8	6	7.5	1	5.8	-0.1	3.7	9.2	38.5	10.7
Clay	%	1.3 [1.4]	0	6.1	7.7	-0.7	3.1	-0.4	0.4	-0.2	24.9	4.6
Sieve, 3 inch	% passing	100 (75000) [100 (75000)]	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000) [100 (50000)]	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500) [100 (37500)]	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000) [100 (25000)]	100 (25000)	100 (25000)	100 (25000)	68.5 (25000)	63.4 (25000)	86 (25000)	84.5 (25000)	72 (25000)	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	88.8 (19000) [100 (19000)]	100 (19000)	100 (19000)	100 (19000)	68.5 (19000)	63.4 (19000)	65.9 (19000)	76.6 (19000)	42.6 (19000)	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	78.3 (9500) [80.4 (9500)]	98.2 (9500)	100 (9500)	100 (9500)	49.4 (9500)	61.9 (9500)	38.2 (9500)	62 (9500)	12.8 (9500)	100 (9500)	95.7 (9500)
Sieve, #4	% passing	69.2 (4750) [72.1 (4750)]	88.9 (4750)	96.5 (4750)	100 (4750)	43.7 (4750)	53.1 (4750)	23.9 (4750)	44.8 (4750)	9.4 (4750)	97.3 (4750)	94.4 (4750)
Sieve, #10	% passing	53.3 (2000) [53.2 (2000)]	70.9 (2000)	91.7 (2000)	99.2 (2000)	36.1 (2000)	44.6 (2000)	12 (2000)	29.9 (2000)	9.1 (2000)	94.6 (2000)	89.3 (2000)
Sieve, #20	% passing	35 (850) [34.5 (850)]	46.4 (850)	83.8 (850)	98.8 (850)	23.3 (850)	30.3 (850)	4 (850)	20.8 (850)	9 (850)	92.7 (850)	78.3 (850)
Sieve, #40	% passing	14.2 (425) [14.2 (425)]	18 (425)	69.9 (425)	96.8 (425)	4.4 (425)	15.4 (425)	0.6 (425)	11 (425)	9 (425)	89.3 (425)	65.3 (425)
Sieve, #60	% passing	4.3 (250) [4 (250)]	3.3 (250)	40 (250)	77.9 (250)	0.6 (250)	11.2 (250)	-0.4 (250)	5.1 (250)	9 (250)	78.3 (250)	43.1 (250)
Sieve, #80	% passing	3.5 (180) [3.2 (180)]	1.3 (180)	24.2 (180)	50.5 (180)	0.4 (180)	10.3 (180)	-0.5 (180)	4.4 (180)	9 (180)	70.9 (180)	29.6 (180)
Sieve, #100	% passing	3.4 (150) [3.1 (150)]	1 (150)	18.7 (150)	37 (150)	0.4 (150)	9.9 (150)	-0.5 (150)	4.2 (150)	8.9 (150)	68.3 (150)	24.4 (150)
Sieve, #200	% passing	3.3 (75) [2.9 (75)]	0.8 (75)	12.1 (75)	15.2 (75)	0.3 (75)	8.9 (75)	-0.5 (75)	4.1 (75)	8.9 (75)	63.4 (75)	15.4 (75)
Hydrometer Reading 1	% passing	2.2 (37) [2.3 (37)]	0.5 (38)	12 (36)	14.9 (34)	-0.3 (38)	6.8 (36)	-0.4 (38)	1.3 (37)	-0.2 (38)	43.1 (33)	11.2 (37)
Hydrometer Reading 2	% passing	2.2 (23) [2.3 (23)]	0.5 (24)	11 (23)	13.1 (22)	-0.3 (24)	6.3 (23)	-0.4 (24)	1.3 (24)	-0.2 (24)	38.9 (21)	7.9 (24)
Hydrometer Reading 3	% passing	1.8 (13.6) [1.9 (13.6)]	0 (13.8)	9.1 (13.2)	10.5 (12.8)	-0.3 (13.8)	4.7 (13.4)	-0.4 (14)	0.4 (13.8)	-0.2 (13.9)	34.7 (12.3)	7.9 (13.6)
Hydrometer Reading 4	% passing	1.8 (9.6) [1.4 (9.8)]	0 (9.9)	7.1 (9.3)	9.2 (9.2)	-0.7 (9.6)	3.6 (9.7)	-0.4 (9.7)	0.4 (9.6)	-0.2 (9.7)	29.1 (8.6)	6.3 (9.7)
Hydrometer Reading 5	% passing	1.3 (6.9) [1.4 (6.9)]	0 (6.7)	6.1 (6.7)	7.7 (6.7)	-0.7 (7)	3.1 (6.6)	-0.4 (7)	0.4 (7)	-0.2 (7)	24.9 (6.4)	4.6 (6.7)
Hydrometer Reading 6	% passing	0.9 (3.3) [0.5 (3.4)]	-0.1 (3.4)	4 (3.4)	5.9 (3.2)	-0.8 (3.6)	2.1 (3.3)	-0.4 (3.5)	0 (3.5)	-0.2 (3.3)	16.8 (3.1)	3.3 (3.3)
Hydrometer Reading 7	% passing	0.8 (1.4) [0.4 (1.4)]	-0.1 (1.4)	2.8 (1.4)	3.9 (1.4)	-0.8 (1.4)	1.1 (1.4)	-0.4 (1.4)	0 (1.4)	-0.2 (1.4)	11.2 (1.4)	1.4 (1.4)

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Table E — Results for Post-Removal Surface Sediment Samples in Plainwell TCRA Area - Data Received in April 2009

Notes:

Data received in April 2009.

Duplicate results are in brackets.

NA - not analyzed.

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UJ - The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.